

SECTION 01200 — GENERAL SAFETY PROVISIONS

PART 1 GENERAL

1.01 SCOPE

This section gives requirements for the Contractor's safety program.

1.02 PROTECTION OF PERSONS AND PROPERTY

- A. Take adequate steps and precautions to protect and prevent damage, injury, or loss to the following:
 - A.1 Government or Contractor employees involved in the contract work and other persons who may be affected thereby.
 - A.2 The completed contract work in place, and other materials and equipment to be incorporated therein, whether in storage on or off the project site, under care, custody, or control of the Contractor or subcontractors.
 - A.3 Other property that may be present at the project site and other adjoining areas.
 - B. Erect and maintain, as required by existing conditions and performance of the contract, adequate safeguards for safety and protection, including: providing adequate lighting and ventilation; posting danger signals and other warning signs against hazards; issuing and posting safety regulations; and notifying the Contracting Officer (CO) of conditions that could affect Government or other Contractor activities at the project site, adjacent sites, or utilities sites.
 - C. Notify the CO when use or storage of explosives, other hazardous materials, equipment, or unusual methods are necessary for the execution and/or performance of the contract work. Exercise the utmost care and carry on such activities only under the supervision of properly qualified personnel.
 - D. Do not perform or permit any part of the contract work on the project site to be performed so as to endanger the safety and/or health of persons or property. These safety management processes shall be addressed in the Contractor's project specific safety plan.
- 1.03 CONTRACTOR SAFETY PROGRAM
- A. The Contractor is solely responsible for initiating, maintaining, and supervising all safety provisions, precautions, and programs in the course of the performance of the contract.

- B. Designate a responsible member of the Contractor's organization at the project site whose duty shall be the prevention of accidents. That person shall be the Contractor's Safety Officer, unless otherwise designated in subpart entitled "Site Staffing and Supervision " within section 01010 "Administrative Requirements."
- C. Prepare and submit a corporate safety plan and a task identification process (TIP) list. Prepare the TIP list in response to the LLNL Procured-Services Work Sheet (PWS). The Government's review of the corporate safety plan and the TIP list will determine whether project specific and task-specific safety plans are also necessary. The Government may accept the Contractor's corporate safety plan in lieu of a project specific safety plan if, in the Government's judgement, it sufficiently addresses the nature and scope of the project.
- D. Unless otherwise determined by the Government in accordance with 1.03.C, above, prepare a detailed project specific safety plan. The safety plan shall at a minimum address:
 - D.1 Project scope of work
 - D.2 Specific construction safety measures required for the project work and specific project site and conditions
 - D.3 Controls for common construction hazards
 - D.4 Environmental protection
 - D.5 Items listed in the PWS
 - D.6 Protection program for noise and silica reduction
- E. Keep one copy of the Government-approved, project-specific safety plan at the jobsite at all times.
- F. The following task-specific safety plans are required:
 - F.1 Fall protection plans
 - F.2 Scaffolding plans
 - F.3 Lifting, rigging, and hoist equipment program
 - F.4 Task specific rigging and lifting plan, including steel erection and equipment lifting
 - F.5 Personal protective equipment programs
 - F.6 Demolition

- G. In addition to the other safety submittals required by this section, submit seven copies of the following for CO approval within 14 calendar days of Notice to Proceed:
 - G.1 Certified past injury, accident, fire, and property damage experience, including motor vehicle, for the previous three years.
 - G.2 A copy of executed OSHA Form 300 "Log and Summary of Occupational Injuries and Illnesses" if requested by the CO.
 - G.3 The name and qualifications of the Contractor's Safety Officer assigned responsibility for the Contractor's safety, accident prevention, and fire protection program.
 - G.4 A completed hazardous material inventory sheet. A copy of this form is included as attachment 2 to section 01210 "Environmental Protection."
- H. Personal Protective Equipment (PPE): Provide and inspect all PPE. In addition, ensure that all Contractor employees, lower-tiered subcontractors, and construction vendors use the appropriate PPE at all times. Construction site PPE shall minimally include:
 - H.1 ANSI Z89.1 "Personal Protection – Protective Headwear for Industrial Workers" approved hard hats
 - H.2 ANSI Z87.1 "Occupational and Educational Eye and Face Protection" compliant safety glasses
 - H.3 ASTM F 2413 "Performance Requirements for Foot Protection" compliant safety toe work boots ("high tops")
 - H.4 Appropriate clothing (long pants and shirts with a minimum of 4-inch sleeves)
 - H.5 High visibility/reflective vests or other acceptable reflective clothing (class II), as required when work is performed in inclement weather or workers are subject to vehicle and/or heavy equipment traffic.
 - H.6 Additional PPE as required by other sections of these specifications, and as specified in the Contractor's corporate, project-specific, and task-specific safety plans.
- 1.04 CONTRACTOR TRAINING PROGRAM
 - A. General: The Contractor is responsible for the safety education of its employees. Provide safety education training in accordance with all laws and standards and include additional training for site supervision. Training shall continue through the term of the contract.. Submit copies of training certificates to the CO for all

operations which require such training prior to performing the work. As a minimum, provide the following training for all pertinent Contractor personnel:

- A.1 Supervisor Safety Training: Supervisor safety training shall cover record keeping, incident investigation, OSHA inspections, H&S documentation requirements, and the OSHA 10-hour course for construction. Submit written verification of the supervisor's safety training.
- A.2 Competent Person Training: Each person designated as a competent person shall attend training on that particular operation. Operations requiring a competent person in accordance with OSHA requirements include, but are not limited to, trenching, excavation and shoring, fall protection, scaffolds, confined space entry, and rigging. Provide, in writing, the names of the designated competent persons for the particular operations and the verification of their training and experience for that operation.
- A.3 Employee Orientation Training: Provide orientation training for every employee (including all sub-tier subcontractors) working on the jobsite covering the various safety policies, safety manuals, first aid availability, accident reporting procedures, safety meeting participation, personal protective equipment, enforcement procedures and any special LLNL-safety requirements that are required in the specifications or the contract. Submit written verification of the employee orientation training.
- A.4 Emergency Procedures: Procedures shall cover notification procedures, evacuation routes, mustering points, and accountability. This section shall also be included as part of the employee orientation training specified in paragraph A.3 above.
- A.5 Safety Meetings: Conduct weekly meetings with all on-site Contractor and subcontractor personnel. Prepare documentation detailing the subject discussed with signatures of all participants for each meeting and submit it to the CO within 24 hours after the meeting.
- A.6 Lockout/Tagout: Training shall cover each individual piece of energy producing machinery or equipment that is to be removed, installed, serviced, or altered during the project. See paragraph 3.04.B "Lockout/Tagout" of this section.

1.05 SAFETY ORIENTATION

Prior to the start of work, attend an LLNL-hosted safety orientation. The orientation will include the viewing of a general safety video, a video describing LLNL's permit process, an overview of construction specification (section 01200) safety requirements, and a discussion of site specific safety requirements. The orientation will take approximately one hour.

1.06 PRE-START SAFETY WALKTHROUGH

Immediately after the award and prior to submitting a safety plan, attend the pre-start job walkthrough scheduled by the Government to validate the job-specific hazards identified in the PWS and to identify any additional hazards not listed. Address all of these hazards in the Contractor's safety plan unless otherwise directed by the Government. Contractor's attendees at this walkthrough shall include, but not necessarily be limited to: the Contractor's superintendent, Safety Officer (if different from the superintendent), and each of the principal foremen and/or subcontractor superintendents. The walkthrough should be accomplished within one half to one full day and the labor costs shall be included in the price of the contract. The Government will make the final determination on the acceptability of the Contractor's safety plan.

1.07 STOP WORK PROVISIONS

Promptly evaluate and resolve any noncompliance with applicable ES&H requirements of this subcontract and its safety plan. If the Contractor fails to provide resolution or if at any time the Contractor's acts, or failures to act, cause substantial harm or an imminent danger to the environment, or to the health and safety of employees or the public, the Government may issue an order stopping work in whole or in part. Any stop work order issued by the Government under this paragraph shall be without prejudice to any other rights of the Government in equity or at law. In the event that the Government issues a stop work order, an order authorizing the resumption of the work may be issued at the discretion of the Government. The Contractor will not be entitled to an extension of time or additional fee or damages by reason of, or in connection with, any work stoppage ordered in accordance with this paragraph.

1.08 PRE-TASK HAZARD ANALYSIS

Conduct daily pre-task hazard analysis (PTHA) meetings with the Contractor's work crew and each subcontractor at the jobsite at the start of work. See appendix A for the PTHA process, a sample worksheet, and checklist.

1.09 EMERGENCIES

In an emergency affecting the safety of persons or property, immediately call 911 from an LLNL system phone or (925) 447-6880 (LLNL Emergency Dispatch Center) from off site, pay, or cellular phone, and take appropriate action to prevent or minimize damage, injury, or loss, and to preserve the integrity of the emergency site for future investigation. Promptly notify the Contracting Officer's Representative (COR); this notice may be oral followed by written confirmation, of the occurrence of such an emergency and the action taken by the Contractor.

1.10 INCIDENT INVESTIGATION

Report all OSHA recordable injuries and any property damage to the COR immediately (within one hour of incident). Also conduct an incident investigation and submit a complete written report to the COR within 24 hours of the incident. If an injury is involved, provide a daily verbal and written update to the COR until the claimant is released to full duty and/or claim has been resolved.

1.11 FAILURE TO COMPLY

Failure to conform to and comply with all applicable safety and health provisions shall subject the Contractor to all remedies and penalties allowable under the contract which may include, but are not limited to, withdrawal of security access badges for violators, withholding of progress payments until violations are cured or corrected, damages to Government and LLNL personnel and property, and termination for default under the contract.

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

3.01 FALL PROTECTION

Provide fall protection at the work site in accordance with 29 CFR 1926 "Safety and Health Regulations for Construction" Department of Labor. Provide all safety equipment, material, labor, and services required for compliance with this requirement.

3.02 AERIAL LIFTS

When Contractor personnel operate aerial lifts, ensure lift operators are trained and qualified to operate the lift in accordance with 29 CFR 1910.66 to 68 and 29 CFR 1926.450 to 454.

3.03 TLV WORKER EXPOSURE PROTECTION

- A. Use the American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs) for establishing exposure limits for workers. Note: The TLVs are typically more stringent exposure limits than those set by OSHA.
- B. Identify to the Government, all operations in which there is potential exposure to workers, and ensure that worker exposure does not exceed the relevant TLVs

(e.g., silica, noise, and asphalt). This requirement may be met by any one of the following means:

- B.1 Monitoring: Employ an independent industrial hygiene consultant to perform monitoring on site during execution of the work. Monitoring shall be performed using a nationally recognized sampling and analytical method such as those promulgated by NIOSH or OSHA. Submit the monitoring report as evidence that TLVs are not exceeded. Proper protective equipment shall be worn while initial monitoring is being conducted.
- B.2 Negative Exposure Assessment (NEA): Submit for review, a negative exposure assessment of worker exposure from previously performed work of a similar nature. Note that the negative exposure assessment is subject to Government rejection if it is incomplete or not representative of the work to be performed.
- B.3 Engineering Controls: Submit for review a detailed hazard specific safety plan that addresses the engineering controls (e.g., wet methods, ventilation, and like methods) that will be used to ensure worker exposure is below the TLVs. Note that the hazard specific safety plan is subject to rejection by the Government if it is incomplete or not representative of the work to be performed.
- C. Ensure that all workers are supplied and use appropriate personal protective equipment in accordance with the determined exposures.

3.04 ELECTRICAL SAFETY

- A. General: Ensure that all necessary safety procedures are followed when working with electricity. In addition, submit a safety plan in accordance with subpart 1.03 "Contractor's Safety Program" that includes a section on electrical safety. The Government will review the plan in accordance with section 01300 "Submittals." Demonstrate in the safety plan that all project-specific electrical safety considerations are addressed, including (but not limited to) the following:
 - A.1 All electrical work shall be performed by qualified electricians in accordance with 29 CFR 1926, subparts K and V, and as provided for in the Contractor's safety program.
 - A.2 If exposed energized parts are encountered where none were expected, particularly during testing of tagged-out circuits, in accordance with paragraph below, stop work immediately and contact the Government for guidance before proceeding.
- B. Lockout/Tagout: Develop and follow a program for the lockout/tagout of electrical circuits to be worked on in accordance with 29 CFR 1910. Coordinate all lockout and tagout of circuits in advance with the COR; do not perform lockout and tagout before obtaining Government approval.

- C. Work on energized circuits is not anticipated for this project. Contact the COR immediately if conditions are encountered that would necessitate working on energized circuits.

END OF SECTION